

ABSTRACT OF THE DISCLOSUREINTEGRATED OPTICS FILTERING COMPONENT COMPRISING AN
OPTICAL CLADDING AND ITS FABRICATION METHOD

The invention relates to an integrated optics filtering component comprising in a substrate (10) at least one filtering unit comprising an optical guide core (11), an optical cladding (13) independent of the 5 core and at least two elementary zones of interaction in series (Z1, Z2, Z3), in which each elementary zone of interaction has at least one structural parameter that is different from that or those adjacent to it, where each elementary zone of interaction is defined by 10 a zone of the substrate comprising an elementary grating (R1, R2, R3), at least one portion of the cladding called the elementary cladding (G1,G2,G3) surrounding at least one portion of the core, called the elementary core, where the refractive index of each 15 elementary cladding is different from the refractive index of the substrate and lower than the refractive index of the core at least in the part of the elementary cladding next to the elementary core, and the different elementary gratings of a filtering unit 20 forming a grating.

Fig. 4